IA-300

Ion analyzer

Easy simultaneous
measurement of multiple ions

- Six cations or seven anions can be measured
- Anion are available for both suppressor and non-suppressor systems.

DKK-TOA CORPORATION

Ion analysis is easier and more accessible!

The ion analyzer is a measuring instrument using ion chromatography as a measuring principle.
Ion chromatography is a reliable method used in many official methods such as JIS.
It is used not only in environmental measurement, but also in a variety of fields, including raw materials, production lines, quality inspections, and wastewater measurement.
It is an ion analyzer to be used in more familiar areas.

Ion analyzer

One packaging of ion chromatography functions (pump, sample injection, constant temperature, detection, data processing, printer, etc.) and injection of sample into the instrument can be used to determine the concentration of the purpose ion.

For the measurement of

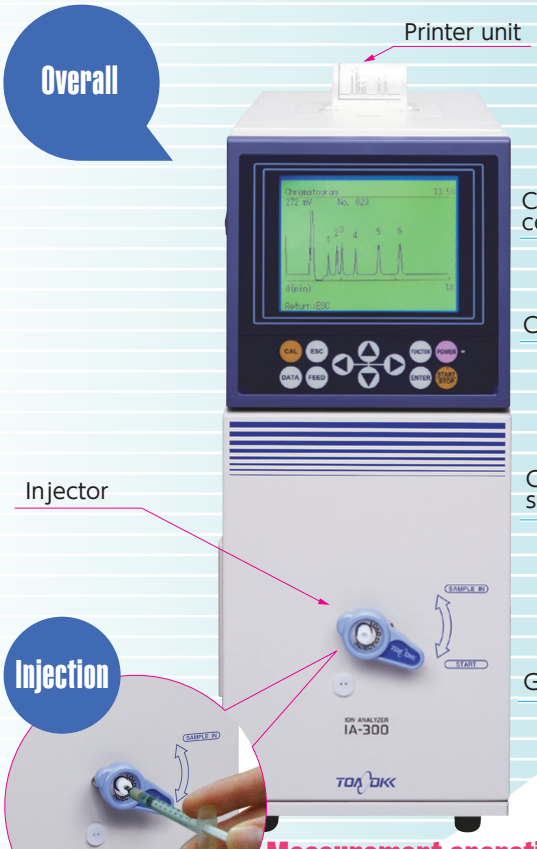
Anion F^-、Cl^-、NO_2^-、Br^-、NO_3^-、PO_4^{3-}、SO_4^{2-} simultaneously

Cation Li^+、Na^+、NH_4^+、K^+、Mg^{2+}、Ca^{2+} simultaneously

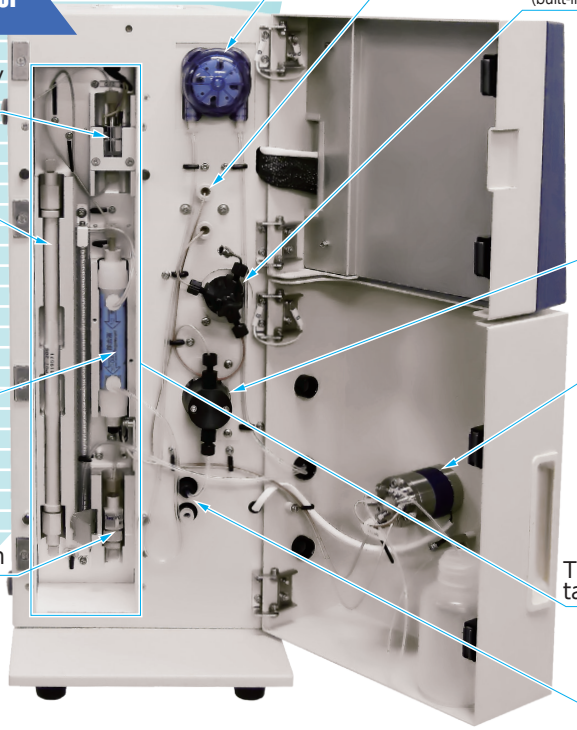
(Note; simultaneous measurement of anions and cations is not possible.)

Configuration of the device

Overall



Inside the front panel



Injection

Measurement operation

Simply inject the sample and lower the lever for measurement.

Notes
- Columns and chemical suppressors are sold separately.
- For column protection, the sample must be filtered before measurement.
- High concentration samples must be diluted with pure water.
- Some samples cannot be measured due to the properties of the samples.

Features

Set measurement conditions with mode selection

Six cations or seven anions can be measured using ion chromatography.

Measurement mode	Measured ion
1, 2 Divalent cation simultaneous measurement mode.	Lithium ion, sodium ion, ammonium ion, Potassium, magnesium, and calcium ions
Anion measurement mode	Fluoride ion, chloride ion, nitrite ion, Bromide, nitrate, phosphate, and sulfuric acid

Automatic processing for analysis and calculation

Analysis and calculation of measurement data are performed automatically by the instrument itself.
Compared with ion chromatographs, which process data PC, the processing time can be drastically reduced.
Can be converted to hardness and nitrogen content.
(For details, refer to the measurement example on page 5.)

A suppressor method was also adopted for anion measurement.

In addition to the conventional measurement conditions, an anion measurement mode using an ion exchange membrane suppressor has been added.
The measurement accuracy of phosphate ions is improved, and the measurement range of each ion is widened.
(For details, refer to the specifications on page 9.)

Various reagents are available (sold separately).

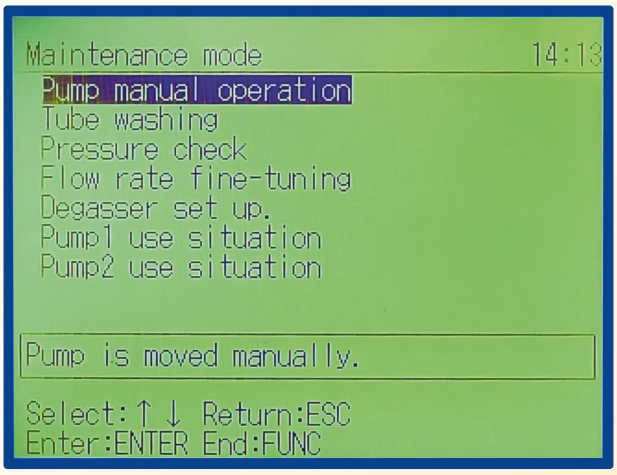
Since various reagents are available for measurement, they can be used immediately without any special equipment such as pure water or balance.

Reduced labor by automatic measurement of multiple samples

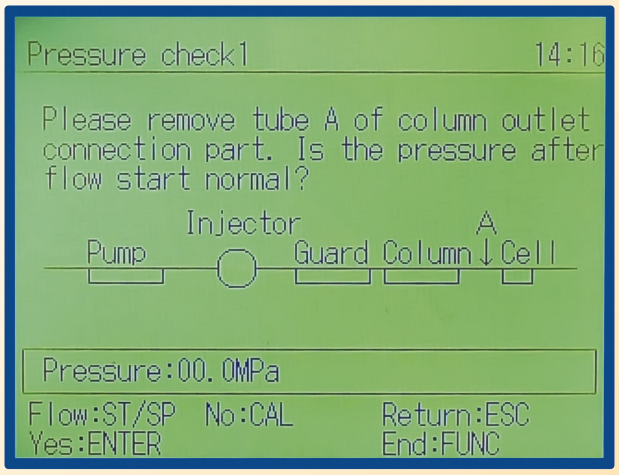
The autosampler ICA-700AS, sold separately, is available for automatic measurement of multiple samples.
(See page 6 for details.)

Easy maintenance

All column changes and piping can be operated on the front.
It also provides on-screen, easy-to-understand support for maintenance and troubleshooting instructions.



Maintenance mode display example



Pressure check mode display example

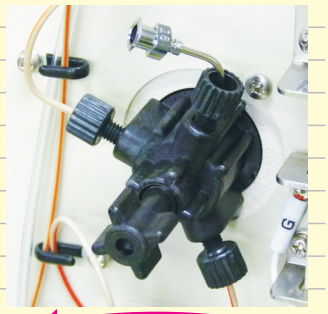
Various convenient functions

Simple procedure for introducing the eluent

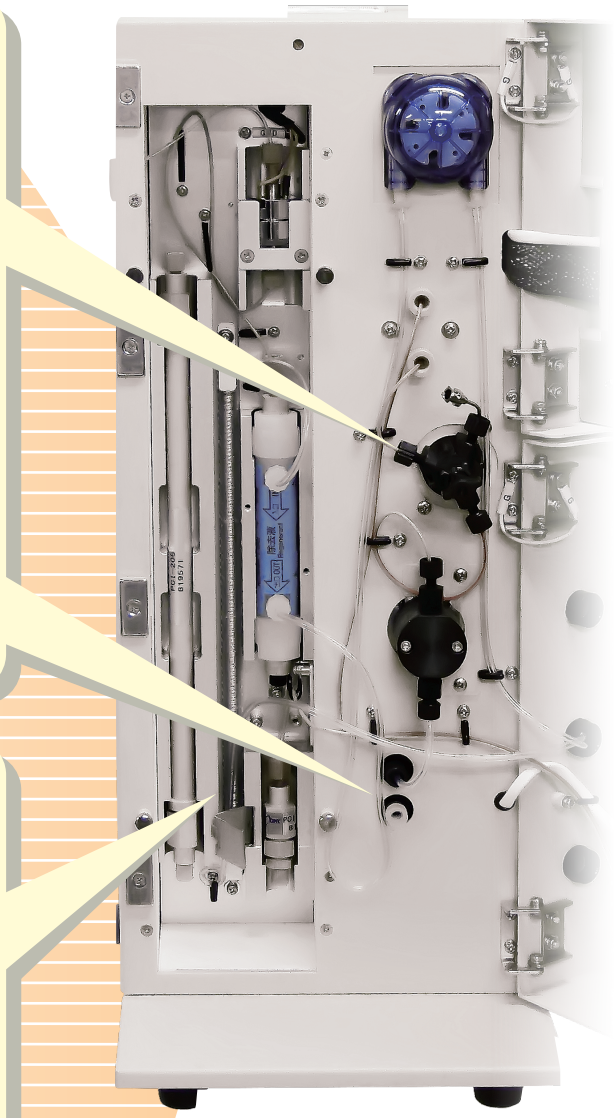
Small amount of leftover below 3mL even with in-line degasser.

The cock is loosened counterclockwise, and the attached syringe is used for priming.

Eluent displacement is also smooth.



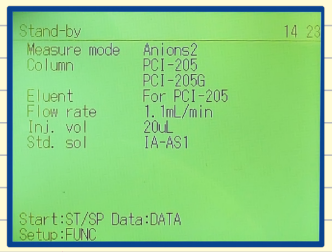
Operate without disconnecting the piping



Adoption of large isothermal parts

Columns, guard columns, suppressors, and detection cells were all housed in the thermostat.

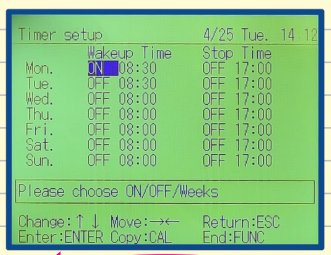
Improved stability and reliability of measurement



After starting the equipment, specific equipment status such as pressure and electric conductivity value is displayed.

Timer function assuming various handling

You can set the time to start or stop the instrument for each day of the week.



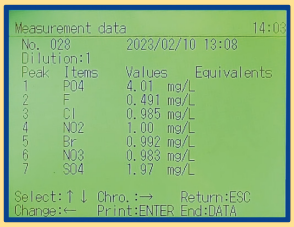
Measure immediately without waiting.

Display and Printing Examples

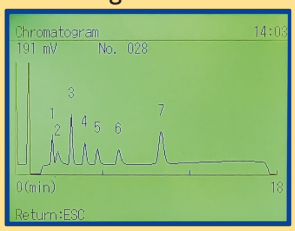
Quantitative values and chromatograms can be displayed and printed.

Anion calibration data

Example of calibration data display

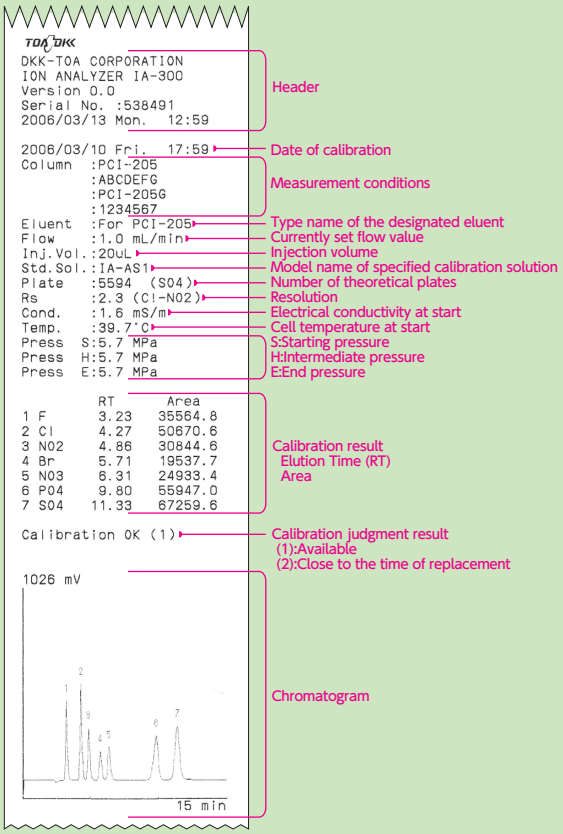


Chromatogram



Printing example

This is an example of printing a calibration result. Calibration results are printed unconditionally regardless of the printer settings.



Header

Date of calibration

Measurement conditions

Type name of the designated eluent

Currently set flow value

Injection volume

Model name of specified calibration solution

Number of theoretical plates

Resolution

Electrical conductivity at start

Cell temperature at start

S:Starting pressure
H:Intermediate pressure
E:End pressure

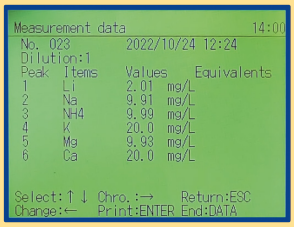
Calibration result
Elution Time (RT)
Area

Calibration judgment result
(1):Available
(2):Close to the time of replacement

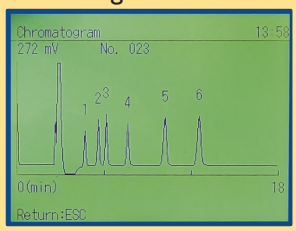
Chromatogram

Cation calibration data

Example of calibration data display

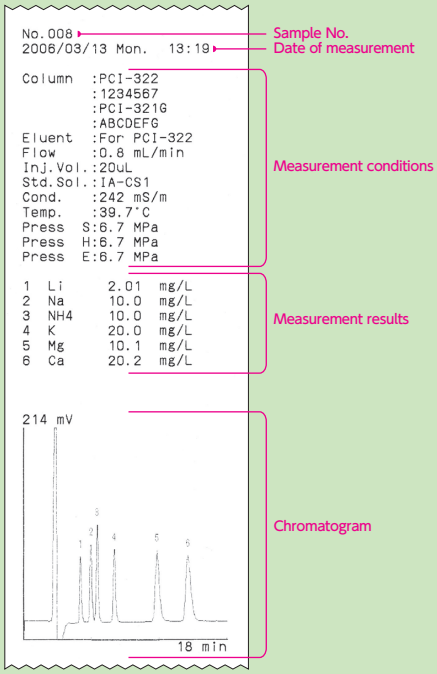


Chromatogram



Printing example

This is an example of printing sample measurement results.

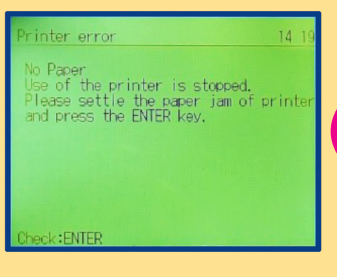


Sample No.
Date of measurement

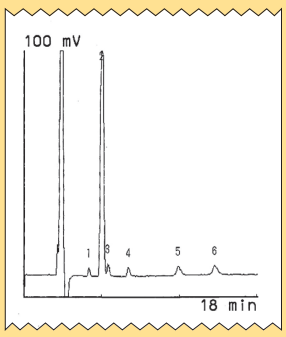
Measurement conditions

Measurement results

Chromatogram



Show chart paper refill message when chart paper is gone



Chromatograms can be printed on the specified display scale.

Printing to match the low density

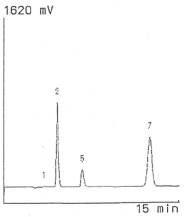
Example of measurement

●Example of conversion printing of nitrogen, phosphorus, sulfur, and hardness

■Tap water

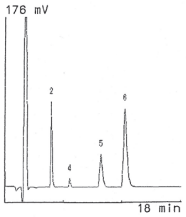
Anion

Factor	1	
1	F	0.099 mg/L
2	Cl	16.0 mg/L
3	NO2	0.000 mg/L
4	Br	0.000 mg/L
5	NO3	9.00 mg/L
6	PO4	0.000 mg/L
7	SO4	30.8 mg/L



Cation

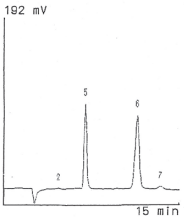
Factor	1	
1	Li	0.000 mg/L
2	Na	9.55 mg/L
3	NH4-N	0.000 mg/L
4	K	2.39 mg/L
5	Mg	4.49 mg/L
6	Ca	23.0 mg/L



■Liquid fertilizer

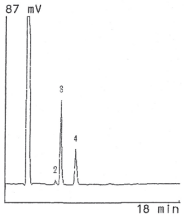
Anion

Factor	1000	
1	F	0.000 mg/L
2	Cl	16.0 mg/L
3	NO2-N	0.000 mg/L
4	Br	0.000 mg/L
5	NO3-N	1.20 g/L
6	PO4-P	4.44 g/L
7	SO4-S	79.0 mg/L



Cation

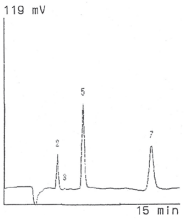
Factor	10000	
1	Li	0.000 mg/L
2	Na	2.17 g/L
3	NH4-N	33.1 g/L
4	K	50.3 g/L
5	Mg	0.000 mg/L
6	Ca	0.000 mg/L
	GH	0.000 mg/L



■Rain water

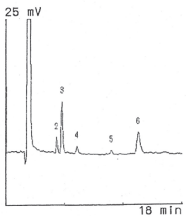
Anion

Factor	1	
1	F	0.000 mg/L
2	Cl	0.480 mg/L
3	NO2	0.018 mg/L
4	Br	0.000 mg/L
5	NO3	3.11 mg/L
6	PO4	0.000 mg/L
7	SO4	2.17 mg/L



Cation

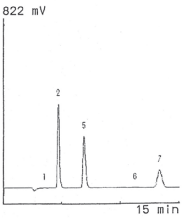
Factor	1	
1	Li	0.000 mg/L
2	Na	0.330 mg/L
3	NH4	0.994 mg/L
4	K	0.336 mg/L
5	Mg	0.052 mg/L
6	Ca	0.935 mg/L
	GH	2.55 mg/L



■Wastewater

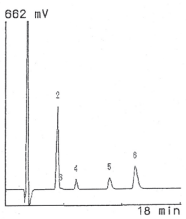
Anion

Factor	5	
1	F	0.085 mg/L
2	Cl	42.6 mg/L
3	NO2-N	0.000 mg/L
4	Br	0.000 mg/L
5	NO3-N	18.3 mg/L
6	PO4	1.86 mg/L
7	SO4	31.3 mg/L



Cation

Factor	1	
1	Li	0.000 mg/L
2	Na	45.6 mg/L
3	NH4-N	0.078 mg/L
4	K	10.8 mg/L
5	Mg	5.79 mg/L
6	Ca	25.5 mg/L
	GH	87.4 mg/L

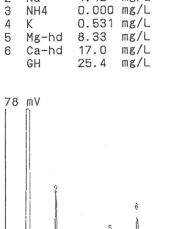


●Examples of three types of hardness printing

■Mineral water Domestic

Cation

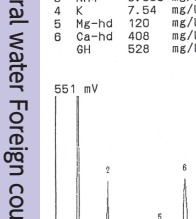
Factor	1	
1	Li	0.000 mg/L
2	Na	4.42 mg/L
3	NH4	0.000 mg/L
4	K	0.531 mg/L
5	Mg-hd	8.33 mg/L
6	Ca-hd	17.0 mg/L
	GH	25.4 mg/L



■Mineral water Foreign countries

Cation

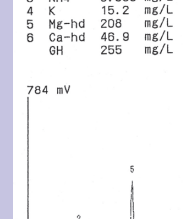
Factor	2	
1	Li	0.176 mg/L
2	Na	78.4 mg/L
3	NH4	0.000 mg/L
4	K	7.54 mg/L
5	Mg-hd	120 mg/L
6	Ca-hd	408 mg/L
	GH	528 mg/L



■Deep water

Cation

Factor	1	
1	Li	0.000 mg/L
2	Na	18.1 mg/L
3	NH4	0.000 mg/L
4	K	15.2 mg/L
5	Mg-hd	208 mg/L
6	Ca-hd	48.9 mg/L
	GH	255 mg/L

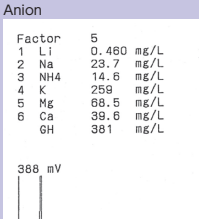


●Example of printing with total hardness only

■Beer

Anion

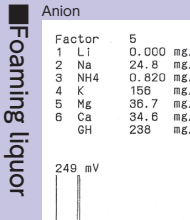
Factor	5	
1	Li	0.460 mg/L
2	Na	23.7 mg/L
3	NH4	14.6 mg/L
4	K	259 mg/L
5	Mg	68.5 mg/L
6	Ca	39.6 mg/L
	GH	381 mg/L



■Foaming liquor

Anion

Factor	5	
1	Li	0.000 mg/L
2	Na	24.8 mg/L
3	NH4	0.820 mg/L
4	K	156 mg/L
5	Mg	36.7 mg/L
6	Ca	34.6 mg/L
	GH	238 mg/L

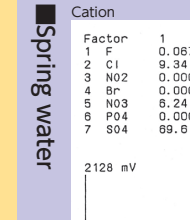


●Others

■Spring water

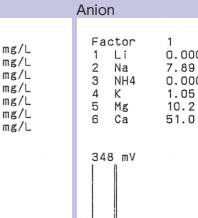
Cation

Factor	1	
1	F	0.067 mg/L
2	Cl	9.34 mg/L
3	NO2	0.000 mg/L
4	Br	0.000 mg/L
5	NO3	6.24 mg/L
6	PO4	0.000 mg/L
7	SO4	69.6 mg/L



Anion

Factor	1	
1	Li	0.000 mg/L
2	Na	7.89 mg/L
3	NH4	0.000 mg/L
4	K	1.05 mg/L
5	Mg	10.2 mg/L
6	Ca	51.0 mg/L



Peripheral equipment

Reduced labor by automatic measurement of multiple samples

Autosampler
ICA-700AS

■Features

●Simply connect with a dedicated cable*1

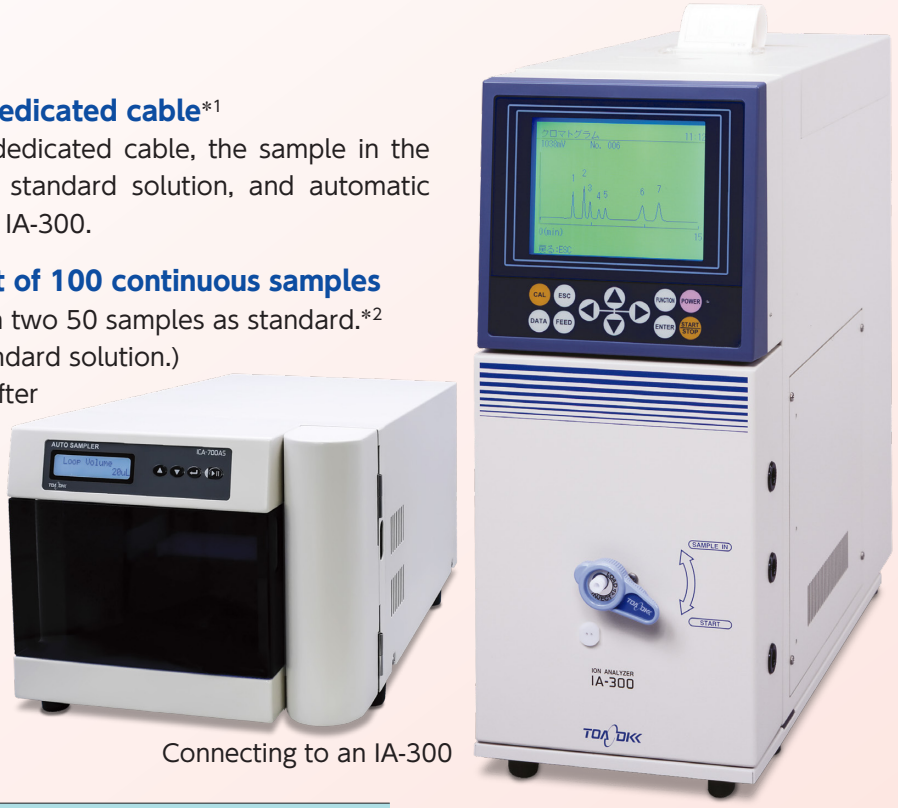
When it is connected by a dedicated cable, the sample in the vial of No.1 is judged as a standard solution, and automatic calibration is performed with IA-300.

●Automatic measurement of 100 continuous samples

The vial rack is equipped with two 50 samples as standard.*2
(One sample is used as a standard solution.)
Clean the aspiration needle after each sample measurement.*3

●Interaction with IA-300 Timer Function

IA-300 can be automatically started and stopped



Connecting to an IA-300

■Specifications

Model name	ICA-700AS
Display	Backlit LCD
Sample container	1.5mL dedicated container Vial (100 pieces): 136C408 Vial cap (100 pieces): 136C409
Injection volume of sample	1 to 1000 μL (1 μL step)
Number of samples	Up to 100 samples (50 samples x 2)
Sample injection type	Loop mode
Material of wet part	PEEK, ETFE, β titanium
Operating temperature range	4 to 35°C
Cooler Unit (Optional) *4	Presence/absence
Power supply	AC100 to 240V 50/60Hz
Power consumption	Max. 20VA
External dimensions	263 (W) × 220 (H) × 416 (D) mm
Weight	11.8kg

With cooler unit (optional)

*1 Please specify IA-300 as the connected model when ordering. If the connection model is not specified, the connection cable is not included. The code for purchasing the connection cable separately is 7678110K.
*2 Vial racks can be purchased additionally for sample preparation.
*3 Use ultrapure water as cleaning water.
*4 Cooler unit is sold separately. The code for purchasing separately is 133A047.

Peripheral equipment

For data management using a PC

Data-gathering software GP-LOG

The data can be imported to a PC in a textual format by RS-232C.
The software can be downloaded free of charge after you register.

RS-232C cable is sold separately. (Code Number: 0GC00002)

■Convenient function

The results can be stored after the measurement is completed.

Press the "Start" button on GP-LOG to wait while receiving, and press the "Stop" button after reading is completed to add the time-in period and send the data to the PC.

	A	B	C	D	E
1	2017/5/9	13:02:19	DM	1	2017/4/12 14:32

AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR
2.01	mg/L	Mg	1	7.71	mg/L	Ca	1	20.5	mg/L	GH	1	83.1	mg/L

You can load data (up to 100 data) stored in IA-300 memory.

Starting No. and ending No. can be set from the "DATA" key on IA-300 and can be imported into the PC. (For 1-data, set the starting No. and ending No. to the same.)

	A	B	C	D	E
1	2017/5/9	13:03:07	DM	1	2017/4/12 14:32
2	2017/5/9	13:03:07	DM	2	2017/4/12 15:35
3	2017/5/9	13:03:07	DM	3	2017/4/12 16:07
4	2017/5/9	13:03:08	DM	4	2017/4/12 16:28
5	2017/5/9	13:03:08	DM	5	2017/4/13 9:18
6	2017/5/9	13:03:08	DM	6	2017/4/13 9:38
7	2017/5/9	13:03:08	DM	7	2017/4/13 10:06
8	2017/5/9	13:03:08	DM	8	2017/4/13 10:28
9	2017/5/9	13:03:09	DM	9	2017/4/13 10:57
10	2017/5/9	13:03:09	DM	10	2017/4/13 11:54

AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR
2.01	mg/L	Mg	1	7.71	mg/L	Ca	1	20.5	mg/L	GH	1	83.1	mg/L
0.949	mg/L	Mg	1	1.05	mg/L	Ca	1	4.56	mg/L	GH	1	15.7	mg/L
0.047	mg/L	Mg	1	0.917	mg/L	Ca	1	8.43	mg/L	GH	1	24.8	mg/L
0.138	mg/L	Mg	1	0.909	mg/L	Ca	1	1.24	mg/L	GH	1	6.83	mg/L
5.17	mg/L	Mg	1	2.32	mg/L	Ca	1	5.11	mg/L	GH	1	22.3	mg/L
0	mg/L	Mg	1	0.486	mg/L	Ca	1	0.068	mg/L	GH	1	2.17	mg/L
3.96	mg/L	Mg	1	1.31	mg/L	Ca	1	0.143	mg/L	GH	1	5.76	mg/L
2.54	mg/L	Mg	1	0.002	mg/L	Ca	1	0.581	mg/L	GH	1	1.46	mg/L
2.53	mg/L	Mg	1	0.448	mg/L	Ca	1	0.946	mg/L	GH	1	4.21	mg/L
1.14	mg/L	Mg	1	0.636	mg/L	Ca	1	0.302	mg/L	GH	1	3.37	mg/L

Real-time data acquisition is also possible.

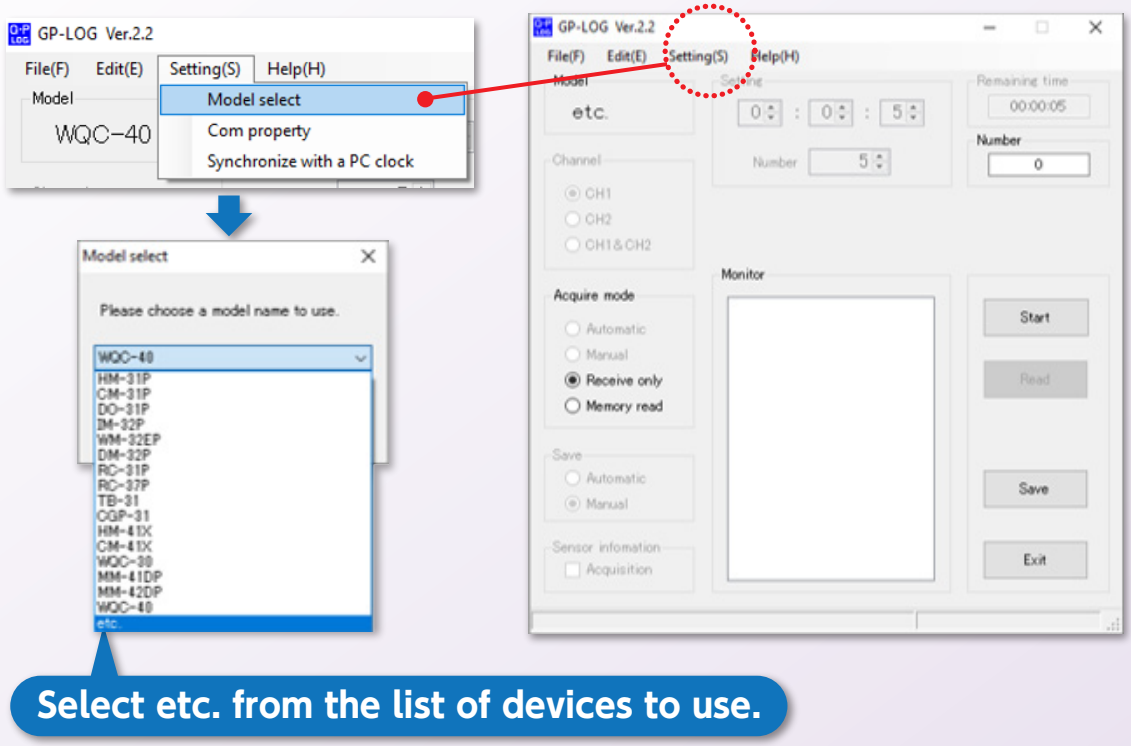
Press the "Start" button on GP-LOG to wait while receiving, and after completing measurement, press the "Stop" button for each measurement to add the take-in period and send the data to the PC.

	A	B	C	D	E	F
1	2017/5/9	13:04:28	CD	7		
2	2017/5/9	13:04:28	100	0		
3	2017/5/9	13:04:28	101	0000.000	02524.638	000.0 08.5 39 39.7
4	2017/5/9	13:04:28	101	0000.100	02524.638	000.0 08.5 39 39.7
5	2017/5/9	13:04:28	101	0000.200	02524.638	000.0 08.5 39 39.7
6	2017/5/9	13:04:28	101	0000.300	02524.638	000.0 08.5 39 39.7
7	2017/5/9	13:04:28	101	0000.400	02524.638	000.0 08.5 39 39.7
8	2017/5/9	13:04:28	101	0000.500	02524.638	000.0 08.5 39 39.7
9	2017/5/9	13:04:28	101	0000.600	02524.638	000.0 08.5 39 39.7
10	2017/5/9	13:04:29	101	0000.700	−2480.477	000.0 08.5 39 39.7
11	2017/5/9	13:04:29	101	0000.800	−2480.477	000.0 08.5 39 39.7
12	2017/5/9	13:04:29	101	0000.900	−2480.477	000.0 08.5 39 39.7
13	2017/5/9	13:04:29	101	0001.000	−2480.477	000.0 08.5 39 39.7
14	2017/5/9	13:04:29	101	0001.100	−2480.477	000.0 08.5 39 39.7
15	2017/5/9	13:04:29	101	0001.200		

10790	2017/5/9	13:22:26	101	1078.700								39.7
10791	2017/5/9	13:22:26	101	1078.800	−0019.569	000.0	08.5	39	39.7				
10792	2017/5/9	13:22:26	101	1078.900	−0019.552	000.0	08.5	39	39.7				
10793	2017/5/9	13:22:27	101	1079.000	−0019.542	000.0	08.5	39	39.7				
10794	2017/5/9	13:22:27	101	1079.100	−0019.542	000.0	08.5	39	39.7				
10795	2017/5/9	13:22:27	101	1079.200	−0019.544	000.0	08.5	39	39.7				
10796	2017/5/9	13:22:27	101	1079.300	−0019.544	000.0	08.5	39	39.7				
10797	2017/5/9	13:22:27	101	1079.400	−0019.556	000.0	08.5	39	39.7				
10798	2017/5/9	13:22:27	101	1079.500	−0019.572	000.0	08.5	39	39.7				
10799	2017/5/9	13:22:27	101	1079.600	−0019.572	000.0	08.5	39	39.7				
10800	2017/5/9	13:22:27	101	1079.700	−0019.589	000.0	08.5	39	39.7				
10801	2017/5/9	13:22:27	101	1079.800	−0019.589	000.0	08.5	39	39.7				
10802	2017/5/9	13:22:27	101	1079.900	−0019.605	000.0	08.5	39	39.7				
10803	2017/5/9	13:22:28	103										
10804	2017/5/9	13:22:28	102	0									

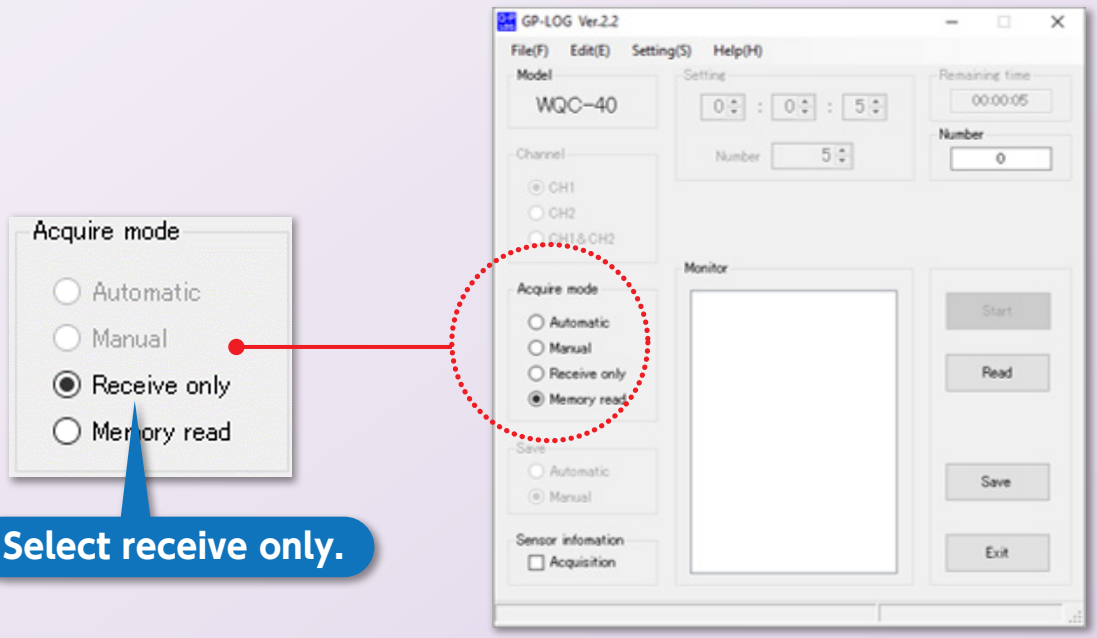
Setting GP-LOG of the data-collection software

■Setting of the equipment used



Select etc. from the list of devices to use.

■Setting the conditions for compilation



Select receive only.

Specifications

Item	Contents
Model name	IA-300
Measurement method	Ion chromatography
Measurement items	Anion (non-suppressor type) PO_4、F、Cl、NO_2、Br、NO_3、SO_4 Anion (suppressor type) F、Cl、NO_2、Br、NO_3、PO_4、SO_4 Cation 1 and divalent simultaneous Li、Na、NH_4、K、Mg、Ca
Repeatability	2% C.V. or less in the calibration solution
Sample injection	Manual sample injection and manual valve switching
Sample measurement	Loop-cut loop volume 20μL or 200μL
Measurement time	15 to 18 min/batch (according to measurement conditions) ＊Analysis is possible in 10 minutes only when using the old column PCI-302S column.
Calibration	One-point calibration using the specified calibration solution
Column oven	40±4℃
Data Processing	Built in
Detection part	Method : Electrical conductivity detection Cell temperature control : 40±4℃
Display	Graphic LCD
Printer	Built-in thermal printer
Operating temperature range	10 to 35℃ However, no abrupt temperature change
Output	Analogues: 0 to 1V Digital: RS-232C
Power supply	AC100V 50/60Hz
Power consumption	Max. 250VA
Dimensions and weight	Approx. 190(W)×469(H)×530(D)mm and approx. 18kg

Standard accessories

- ●1mL disposable syringe
- ●Syringe needle
- ●Sample loops (20, 200μL) (1 each)
- ●Syringe set for air bleeding
- ●Spanners (6 x 8, 8 x 10) (1 each)
- ●Hexagon wrenches (1.5mm,2.5mm,3mm)(1each)
- ●Plunger seal replacement jig
- ●Printer paper (Volume 2)
- ●AC cable
- ●2P transmitter adapter
- ●Ground wire
- ●Ring instructions manual

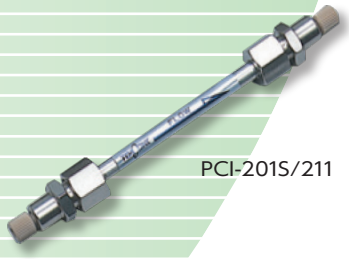
＊Column, chemical suppressor, calibration solution, lysis solution, removal solution and tank introduction pipe are sold separately.

The required parts differ depending on the measurement mode, so please select from "Required parts for each measurement mode" on page 10.

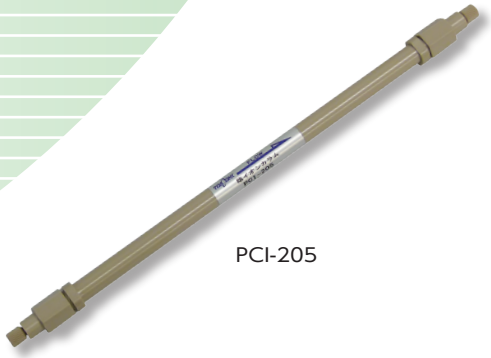
Measurement range

Mode/Measurement Ion Type		When 20 μL loop is used	When using a 200 μL loop
PCI-322 ／ 1, 2 divalent cation determination	Li	0.050 to 10.00mg／L	0.005 to 1.00mg／L
	Na、Mg、NH_4 (NH_4-N)	0.250 to 50.0mg／L (0.194 to 38.8mg／L)	0.025 to 5.00mg／L (0.019 to 3.88mg／L)
	K、Ca	0.500 to 100mg／L	0.050 to 10.0mg／L
PCI-201S ／ Anion measurement (non-suppressor)	F、Cl、Br	1.00 to 100mg／L	0.100 to 10.0mg／L
	NO_2 (NO_2-N)	1.00 to 100mg／L (0.305 to 30.5mg／L)	0.100 to 10.0mg／L (0.031 to 3.05mg／L)
	NO_3 (NO_3-N)	1.00 to 100mg／L (0.226 to 22.6mg／L)	0.100 to 10.0mg／L (0.023 to 2.26mg／L)
	SO_4 (SO_4-S)	2.00 to 200mg／L (0.668 to 66.8mg／L)	0.200 to 20.0mg／L (0.067 to 6.68mg／L)
	PO_4 (PO_4-P)	5.00 to 200mg／L (1.63 to 65.2mg／L)	0.500 to 20.0mg／L (0.163 to 6.52mg／L)
PCI-211 ／ Anion measurement (non-suppressor)	F、Cl、Br	0.500 to 50.0mg／L	0.050 to 5.00mg／L
	NO_2 (NO_2-N)	0.500 to 50.0mg／L (0.152 to 15.2mg／L)	0.050 to 5.00mg／L (0.015 to 1.52mg／L)
	NO_3 (NO_3-N)	0.500 to 50.0mg／L (0.113 to 11.3mg／L)	0.050 to 5.00mg／L (0.011 to 1.13mg／L)
	SO_4 (SO_4-S)	1.00 to 100mg／L (0.334 to 33.4mg／L)	0.100 to 10.0mg／L (0.033 to 3.34mg／L)
	PO_4 (PO_4-P)	2.50 to 100mg／L (0.815 to 32.6mg／L)	0.250 to 10.0mg／L (0.082 to 3.26mg／L)
PCI-205 ／ Anion measurement (suppressor)	F、Cl、Br	0.050 to 50.0mg／L	
	NO_2 (NO_2-N)	0.050 to 50.0mg／L (0.015 to 15.2mg／L)	
	NO_3 (NO_3-N)	0.050 to 50.0mg／L (0.011 to 11.3mg／L)	
	SO_4 (SO_4-S)	0.100 to 100mg／L (0.033 to 33.4mg／L)	
	PO_4 (PO_4-P)	0.250 to 100mg／L (0.082 to 32.6mg／L)	

PCI-322



PCI-201S/211



PCI-205

Required parts for each measurement mode (sold separately)

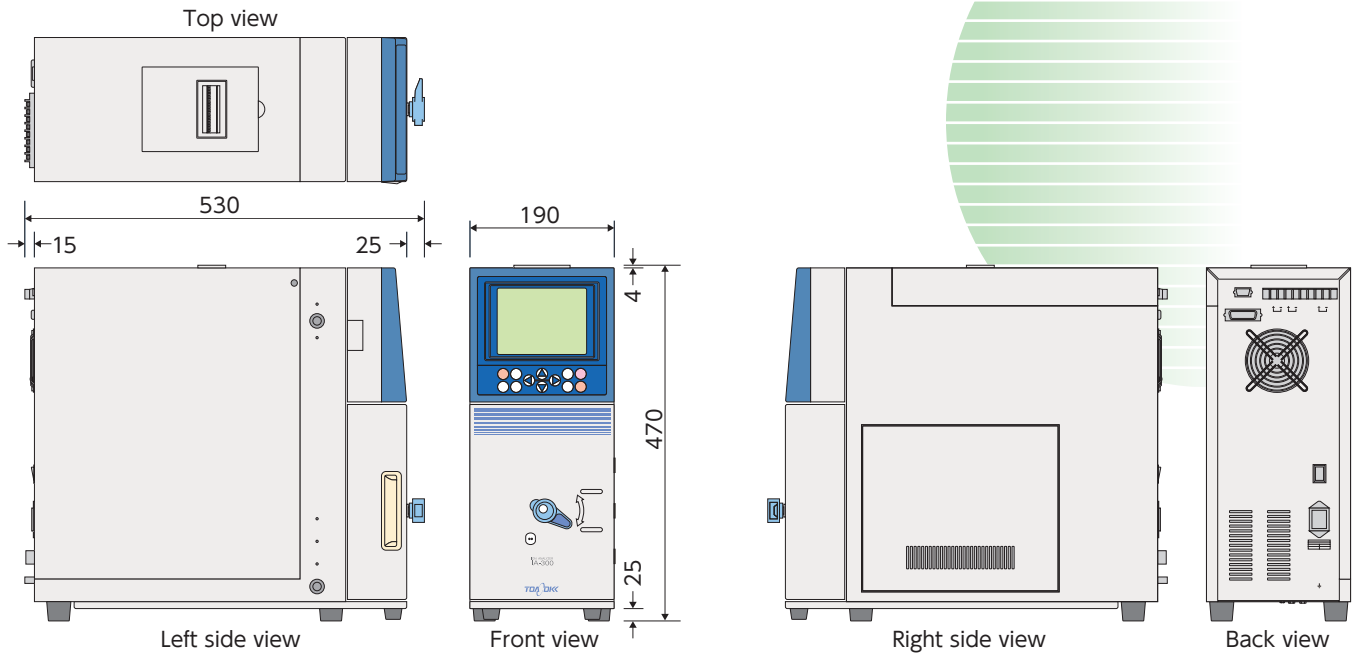
Measurement mode	Parts			Necessary items	Quantity, etc.
	Name		Model name		
Anion measurement PCI-205 mode Suppressor	Anion exchange column		PCI-205	○	1 piece
	Guard column		PCI-205G	○	1 piece
	Chemical suppressor		6813690K	○	1 piece
	Calibration solution	For 20 μL loop	IA-AS1	○	100mL 1 bottle
	Eluent	1L	143H063	○	1 bottle
	Removal solution	1L	143H071	○	1 bottle
	Tank inlet pipe		6547830K	○	With 2L tank
Anion measurement PCI-211 mode Non-suppressor	Anion exchange column		PCI-211	○	1 piece
	Guard column		PCI-211G	○	1 piece
	Calibration solution	For 20 μL loop	IA-AS1	△*1	100mL 1 bottle
		For 200 μL loop	IA-AS2	△*1	100mL 1 bottle
	Eluent	2L	6547760K	○	1 bottle
		5L	6547770K	△*2	1 bottle
	Tank inlet pipe		6547830K	○	With 2L tank
Anion measurement PCI-201S mode Non-suppressor	Anion column		PCI-201S	○	1 piece
	Guard column		PCI-201SG	○	1 piece
	Calibration solution	For 20μL loop	IA-AS1	△*1	100mL 1 bottle
		For 200μL loop	IA-AS2	△*1	100mL 1 bottle
	Eluent	2L	IA-AE-12	○	1 bottle
		5L	IA-AE-15	△*2	1 bottle
	Tank introduction pipe		6547830K	○	With 2L tank
Cation measurement PCI-322 mode Simultaneous determination of 1 and 2 valences	Cation column		PCI-322	○	1 piece
	Guard column		PCI-322SG	○	1 piece
	Calibration solution	For 20 μL loop	IA-CS1	△*1	100mL 1 bottle
		For 200 μL loop	IA-CS2	△*1	100mL 1 bottle
	Eluent	2L	143H061	○	1 bottle
		5L	143H062	△*2	1 bottle
	Tank inlet pipe		6547830K	○	With 2L tank

＊1 : Requires either a 20 μL loop or a 200μL loop.　＊2 : 5L is used for refilling.

Other common parts

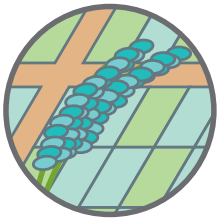
Parts		Quantity	Notes
Name	Model/Code No.		
Printer paper	PAP-HCS	5 Volume	Thermal recording paper
RS-232C connecting cable	0GC00002	1 piece	A commercially available USB serial converter is required to connect to USB.
IA-300 ICA-700AS connection cable	7678110K	1 piece	For connecting autosampler ICA-700AS

Dimensions (Unit :mm)



We provide high-level solutions to analytical needs in a wide range of fields, including the environment, effluent, agriculture, food, water, quality control, and education.

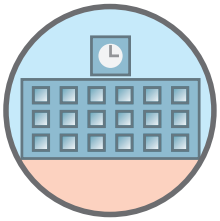
Application areas



Agriculture
Soil, hydroponic solution, fertilizer, livestock feed, vegetables, tea leaves, etc.

Wastewater
Plant effluent, semiconductor plant effluent, waste water from waste treatment plants, sewage, etc.

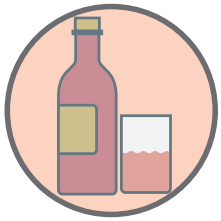
Tap water
Raw water, purified water, etc.



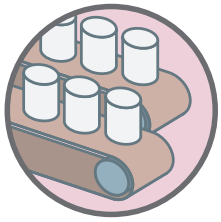
School
Support for research, education, etc.

Analysis
For request analysis work

Environmental
Rainwater, rivers, lakes, groundwater, soil, rocks, seawater, etc.



Food products
Soft drinks, juices, natural waters, liquors, foods, food additives, etc.



Manufacturing
Raw materials, washing water, products, plating solution, treatment solution, etc.

Others
Various research, quality control, etc.

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⚠ CAUTION Please read the operation manual carefully before using producuts.

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Information and specifications are subject to change without notice.

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